PTFE 25% Glass Filled

Compression Molded

PTFE 25% Glass Filled exhibits low wear and creep under load. Glass Fibers can be added in various amounts (5% to 40%) depending upon the application. 25% is the most popular glass fill percentage used for most applicaitons.

Physical Properties	***ASTM Method***	***Typical Values***	
Specific Gravity	D792	2.22	gr/cm^3
Water Absorption (24hrs. @73.4°F)	D570	.015	%
Color	N/A	White	
Mechanical Properties			
Tensile Strength	D1708	3100	psi
Tensile Elongation	D1708	250	%
Flexural Strength	D790	2,200	
Flexural Modulus	D790	210,00	
Compressive Strength	D695	2200	psi
Compressive Modulus	D695	100,000	psi
Impact Strength (Izod, notched)	D256		
Hardness	Shore D	59	
Tribological Properties			
Coefficient of Friction			
Static	D3702	.08	
Dynamic	D3702	0.13	
Wear Rate (PV: 20,000 psi-fpm)	D3702		
Thermal Properties			
Coefficient of Linear Thermal Expansion (78 to 400°F)	D696	71	$10^{-6}/°F$
Heat Deflection Temperature (@264 psi)	D648		
Glass Transition Temperature (Tg)	D3418		
Continuous Service Temperature (Max @ no load)		500	°F
Melting Point		621	°F
Electrical Properties			
Volume Resistivity	D257		
Dielectric Strength	D149		
Dielectric Constant	D150		

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